

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001855**Date Inspected:** 19-Feb-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Chang xing dao,Shanghai**Quality Control Contact:** Mr. Don walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** See below**Bid Item:** 77,78,79**Lot No:** B #204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

1. An inspection was requested on the OBG segment, 8CE, External surfaces for the surface preparation Inspection for primer coat application and residual chlorides test, vide request no. 2705 at Blasting shop 1. This Caltrans inspector observed, ABF inspectors Mr. Shi stone and Mr. Jiang huan, performing Blasting inspection of external surfaces. The same was found rejected for minor reblasting in areas marked. Residual chlorides test was conducted by ZPMC at 3 places and the result found to be 10 us/cm on all places which is acceptable as per contract documents.(Photo attached). The ambient conditions found to be 9.2 deg. above dew point and the relative humidity found to be 41% inside the paint shop which is found to be within the parameters of contract documents. After attending the reblasting in marked areas It was found that ZPMC submitted notification for the Interzinc 22 application vide request no. 2706. ABF Inspectors inspected all the external surfaces and the profile found to be 70 to 84 microns which was carried out at 9 places, which is acceptable as per contract documents. It was found that ZPMC commenced primer application after this acceptance.

2. An inspection was requested on 6 sets of OBG Suspender bracket for the surface preparation Inspection for primer coat application and residual chlorides test, vide request no. 2707 at Blasting shop 2. This Caltrans inspector observed, ABF inspectors Mr. Don walton, Mr. Shi stone, Mr. Wei chang yun and Mr. Jiang huan, performing Blasting inspection of these suspender brackets. The same was found rejected for minor reblasting

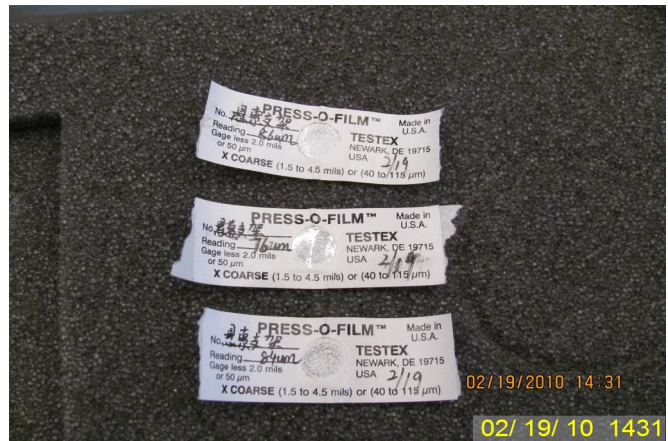
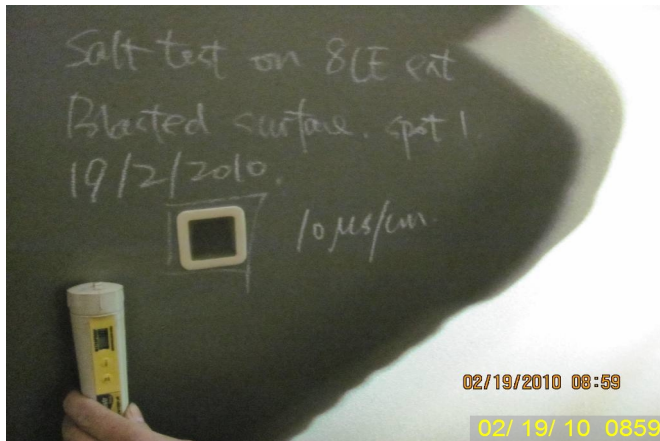
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and grinding touch ups on some areas which was marked. Residual chlorides test was conducted by ZPMC on suspender bracket no. SB34E and the result found to be 30 us/cm which is acceptable as per contract documents. Porosity found in 4 places (SB 32E-2 nos, SB32W- 1 no., SB34W- 1 no.) which was marked off for further weld repairs. The ambient conditions found to be 14.7 deg. above dew point and the relative humidity found to be 29. 9% inside the paint shop which is found to be within the parameters of contract documents. After attending the reblasting and grinding touch ups in marked areas It was found that ZPMC submitted notification for the Interzinc 22 application vide request no. 2708 for all 6 sets of suspender brackets. ABF Inspectors inspected all the surfaces and the profile by coarse grain method found to be 76 to 86 microns (Photo attached) which is acceptable as per contract documents.

Note: No International protective coatings technical service representative present during the course of this inspection process.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

No applicable conversations

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Skyler Guest (15000422360), who represents the Office of Structural Materials for your project.

Inspected By: Baskar, Govindarajan

Quality Assurance Inspector

Reviewed By: Clifford, William

QA Reviewer